

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. - 3. (Canceled).

4. (Currently Amended) A multimedia intermediate device coupled to a first terminal and a second terminal through one or more telecommunications networks and configured to convert a first coded video bitstream data coded using a first hybrid video codec to a second coded video bitstream data coded using a second hybrid video codec, the multimedia intermediate device comprising:

a. a video bitstream decoder disposed in a data path ahead of the second terminal and operative to decode the first coded video bitstream data;

b. an encoder coupled to the video bitstream decoder for re-encoding a plurality of macroblocks, wherein each of the plurality of macroblocks is re-encoded as an intra coded macroblock upon receipt of a video update request at the multimedia intermediate device from a source external to the multimedia intermediate device;

c. a control unit coupled to the encoder; and

d. a control port coupled to the control unit and configured to receive one or more control signals from the second terminal.

5. (Canceled).

6. (Previously Presented) The multimedia intermediate device of claim 4 wherein a first standard for the first hybrid video codec is the same as a second standard for the second hybrid video codec.

7. (Previously Presented) The multimedia intermediate device of claim 4 wherein the video bitstream decoder is operative to fully decode a frame before encoding an output frame.

8. (Currently Amended) The multimedia intermediate device of claim 4 wherein ~~the video bitstream encoder only re-encodes selected macroblocks~~ the plurality of macroblocks are a plurality of inter coded macroblocks.

9. (Previously Presented) The multimedia intermediate device of claim 4 wherein the video bitstream decoder is operative to manipulate data in a frequency transform domain.

10. (Canceled).

11. (Currently Amended) A method for converting a first coded video bitstream data coded using a first hybrid video codec to second coded video bitstream data coded using a second hybrid video codec, the method being performed using a multimedia intermediate device coupled to a first terminal and a second terminal through one or more telecommunications networks, the method comprising:

a. decoding the first coded video bitstream data in a video bitstream decoder disposed in a data path ahead of the second terminal;

b. receiving a video update request at the multimedia intermediate device from a source external to the multimedia intermediate device; and

c. re-encoding a plurality of macroblocks in a video bitstream encoder to form a plurality of re-encoded macroblocks, wherein each of the plurality of macroblocks is re-encoded as an intra coded macroblock upon receipt of the video update request.

12. (Canceled).

13. (Previously Presented) The method of claim 11 wherein a first standard for the first hybrid video codec is the same as a second standard for the second hybrid video codec.

14. (Previously Presented) The method of claim 11 wherein the video bitstream decoder is operative to fully decode a frame before encoding an output frame.

15. (Currently Amended) The method of claim 11 wherein ~~the video bitstream encoder only re-encodes selected macroblocks~~ the plurality of macroblocks are a plurality of inter coded macroblocks.

16. (Previously Presented) The method of claim 11 wherein the video bitstream decoder is operative to manipulate data in a frequency transform domain.

17. (Currently Amended) The method of claim 13 wherein a portion of the first coded video bitstream data is copied to the second coded video bitstream data, prior to receipt of the video update request.

18. (Previously Presented) The multimedia intermediate device of claim 4 wherein the video update request is received from the second terminal.

19. (Previously Presented) The multimedia intermediate device of claim 18 wherein the second terminal is a 3G-324M terminal.

20. (Previously Presented) The multimedia intermediate device of claim 18 wherein the second terminal is in at least one of a packet-switched network or a circuit-switched network.

21. (Canceled).

22. (Currently Amended) The multimedia intermediate device of claim 4 wherein ~~a server is the multimedia intermediate device~~ the multimedia intermediate device is further coupled to a server disposed in a second data path ahead of the video bitstream decoder, the server being operative to transmit a portion of the first coded video bitstream data from an encoded video bitstream data.

23. (Previously Presented) The multimedia intermediate device of claim 22 wherein the server is adapted to store the encoded video bitstream data at the server.

24. (Currently Amended) The multimedia intermediate device of claim 4 wherein the second terminal is adapted to transmit the video update request from the second terminal to the multimedia intermediate device in response to bit errors detected at the second terminal.

25. (Previously Presented) The multimedia intermediate device of claim 4 wherein the first hybrid video codec is selected from the group consisting of H.261, H.263, H.264, and MPEG-4-video.

26. (Previously Presented) The multimedia intermediate device of claim 4 wherein the second hybrid video codec is selected from the group consisting of H.261, H.263, H.264, and MPEG-4-video.

27. (Canceled).

28. (Currently Amended) The multimedia intermediate device of claim 6 wherein a portion of the first coded video bitstream data is copied to the second coded video bitstream data, prior to receipt of the video update request.

29. (Previously Presented) The method of claim 11 wherein the video update request is received from the second terminal.

30. (Previously Presented) The method of claim 29 wherein the second terminal is a 3G-324M terminal.

31. (Currently Amended) The method of claim 29 wherein the video update request is transmitted from the second terminal to the multimedia intermediate device in response to bit errors detected at the second terminal.

32. (Previously Presented) The method of claim 29 wherein the second terminal is in at least one of a packet-switched network or a circuit-switched network.

33. (Currently Amended) The method of claim 11 wherein a portion of the first coded video bitstream data is pre-encoded to provide a pre-encoded video bitstream data.

34. (Previously Presented) The method of claim 33 wherein the pre-encoded video bitstream data is stored on a server.

35. (Currently Amended) The method of claim 11 wherein the each of the plurality of re-encoded macroblocks forms a portion of an inter coded frame ~~or an intra-coded frame~~.

36. (Previously Presented) The method of claim 11 wherein the each of the plurality of re-encoded macroblocks forms an entirety of an intra coded frame.

37. (Previously Presented) The method of claim 11 further comprising:
re-encoding a further plurality of macroblocks, wherein each of the further plurality of macroblocks is re-encoded as an inter coded macroblock in a frame following a frame containing the plurality of macroblocks.

38. (Previously Presented) The method of claim 11 wherein the first hybrid video codec is selected from the group consisting of H.261, H.263, H.264 and MPEG-4-video.

39. (Previously Presented) The method of claim 38 wherein the second hybrid video codec is selected from the group consisting of H.261, H.263, H.264 and MPEG-4-video.

40. (Canceled).

41. (Currently Amended) The method of claim 11 wherein the encoder performs a portion of the re-encoding by reusing information obtained from the first coded video bitstream data.

42. (Currently Amended) The method of claim 41 wherein the information obtained from the first coded video bitstream data comprises at least one of one or more motion vectors or one or more macroblock encoding types.

43. (Previously Presented) The method of claim 37 wherein one or more of the further plurality of macroblocks is coded with differences from one or more of the plurality of macroblocks.

44. (Previously Presented) The method of claim 37 further comprising:

re-encoding a second further plurality of macroblocks, wherein each of the second further plurality of macroblocks is re-encoded as an inter coded macroblock in a further frame following the frame containing the further plurality of macroblocks.

45. (Previously Presented) The method of claim 44 wherein:
one or more of the further plurality of macroblocks is coded with differences from one or more of the plurality of macroblocks; and
one or more of the second further plurality of macroblocks is coded with differences from one or more of the further plurality of macroblocks.

46. (Previously Presented) The method of claim 11 wherein the video update request is a signal received from a second control module in the multimedia intermediate device.

47. (Previously Presented) The multimedia intermediate device of claim 4 wherein the video update request is an H.245 message.

48. (Previously Presented) The multimedia intermediate device of claim 47 wherein the H.245 message is a VideoFastUpdate message.

49. (Previously Presented) The multimedia intermediate device of claim 4 wherein the video update request is received at the control port.

50. (Previously Presented) The multimedia intermediate device of claim 4 wherein the control port comprises an H.245 port.

51. (Currently Amended) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a video gateway, wherein the video gateway is operative to interface between a first telecommunications network and a second telecommunications network different than the first telecommunications network.

52. (Currently Amended) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a multimedia gateway, wherein the multimedia gateway is operative to interface between a first telecommunications network and a second telecommunications network different than the first telecommunications network.

53. (Currently Amended) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a transcoding gateway, wherein the transcoding gateway is operative to interface between a first telecommunications network and a second telecommunications network different than the first telecommunications network.

54. (Previously Presented) The multimedia intermediate device of claim 4 wherein the multimedia intermediate device comprises a multimedia terminating device.

55. (Previously Presented) The multimedia intermediate device of claim 18 wherein the second terminal comprises a videotelephony terminal.

56. (Previously Presented) The method of claim 11 further comprising transmitting an additional video update request to the first terminal.

57. (Previously Presented) The method of claim 11 wherein the video update request is an H.245 message.

58. (Previously Presented) The method of claim 57 wherein the H.245 message is a VideoFastUpdate message.

59. (Previously Presented) The method of claim 11 wherein the video update request is a video-fast-update request.

60. (New) The method of claim 37 wherein the further plurality of macroblocks are a plurality of intra coded macroblocks.

61. (New) The method of claim 44 wherein the second further plurality of macroblocks are a plurality of intra coded macroblocks.